UNISONIC TECHNOLOGIES CO., LTD

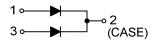
MBR30100C

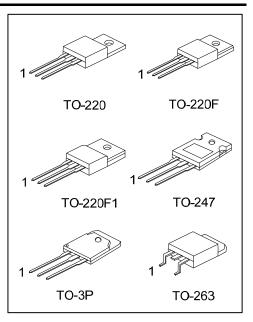
30A SCHOTTKY BARRIER RECTIFIER

■ FEATURES

- * 30 amps total (15 amps per diode leg)
- * Guard ring for transient protection
- * Low forward voltage drop
- * High surge capability
- * Low power loss/High efficiency

■ SYMBOL

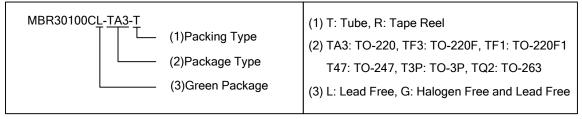




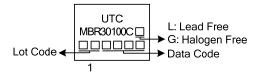
■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MBR30100CL-TA3-T	MBR30100CG-TA3-T	TO-220	Α	K	Α	Tube	
MBR30100CL-TF3-T	MBR30100CG-TF3-T	TO-220F	Α	K	Α	Tube	
MBR30100CL-TF1-T	MBR30100CG-TF1-T	TO-220F1	Α	K	Α	Tube	
MBR30100CL-T3P-T	MBR30100CG-T3P-T	TO-3P	Α	K	Α	Tube	
MBR30100CL-T47-T	MBR30100CG-T47-T	TO-247	Α	K	Α	Tube	
MBR1060CL-TQ2-T	MBR1060CG-TQ2-T	TO-263	Α	K	Α	Tube	
MBR1060CL-TQ2-R	MBR1060CG-TQ2-R	TO-263	Α	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



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MBR30100C

■ **ABSOLUTE MAXIMUM RATINGS** (T_A=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	100	V
Maximum non-repetitive Peak Reverse Voltage		V_{RM}	100	V
Maximum DC Blocking Voltage		V_R	100	V
Average Forward Rectified Output Current	Per Leg		15	Α
	Total	I _O	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave		I _{FSM}	275	А
Junction Capacitance (Note 3)		CJ	300	pF
Operating Temperature		T _J	-65 ~ + 150	°C
Storage Temperature		T_{STG}	-65 ~ +150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA

PARAMETER		SYMBOL	RATINGS	UNIT	
Junction to Ambient	TO-220/TO-220F TO-220F1/TO-263	•	62.5	°C/W	
	TO-3P	θ_{JA}	29		
	TO-247		35		
Junction to Case	TO-220/TO-263		2		
	TO-220F/TO-220F1	0	5	°C/W	
	TO-3P	$\theta_{ extsf{JC}}$	1.5		
	TO-247		1.45		

■ ELECTRICAL CHARACTERISTICS

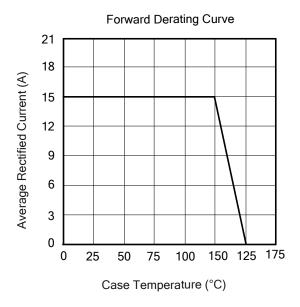
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage Drop (Note 2)	V _F	I _F =15A, T _C =25°C			0.85	V
		I _F =15A, T _C =125°C			0.75	٧
		I _F =30A, T _C =25°C			1.10	V
		I _F =30A, T _C =125°C			1.05	٧
Instantaneous Reverse Current (Note 2)	l _D	Rated DC Voltage, T _C =25°C			100	μΑ
		Rated DC Voltage, T _C =125°C			20	mA

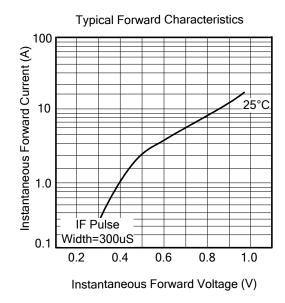
Notes: 1. 2.0µs Pulse Width, f = 1.0 KHz

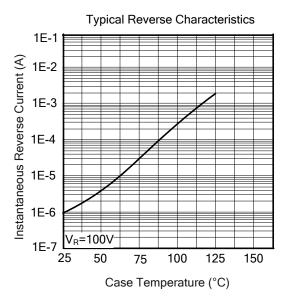
- 2. Pulse Test: Pulse Width ≤ 300µs, Duty Cycle ≤ 2.0%
- 3. Applied V_R = 4.0V and f = 1.0 MHz

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■ TYPICAL CHARACTERISTICS







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